

Comparisons of Job Characteristics

Focus Occupation: Captains, Mates, and Pilots of Water Vessels (53-5021)

Associated Occupation: Ship Engineers (53-5031)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 57

Focus Occupation: Captains, Mates, and Pilots of Water Vessels (53-5021)

Associated Occupation: Ship Engineers (53-5031)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Mechanical	6.8	21.4	9.8	<<	Extensive education and/or training may be required
Public Safety and Security	6.9	15.3	13.4	<	Expanded education and/or training may be required
Engineering and Technology	5.7	13.9	6.3	<<	Extensive education and/or training may be required
Transportation	4.6	12.4	16.0	>>	Current knowledge level is likely more than sufficient
Law and Government	5.9	11.6	7.7	<<	Extensive education and/or training may be required
Design	5.2	10.8	3.3	<<	Extensive education and/or training may be required
Telecommunications	3.9	7.0	8.2	>	Current knowledge level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 65

Focus Occupation: Captains, Mates, and Pilots of Water Vessels (53-5021)

Associated Occupation: Ship Engineers (53-5031)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Equipment Maintenance	3.5	11.6	5.8	<<	Extensive development of skills in this area may be required
Troubleshooting	4.5	11.6	7.9	<<	Extensive development of skills in this area may be required
Operation Monitoring	6.6	11.5	13.0	>	Skill level is likely sufficient

Repairing	3.4	10.8	5.9	<<	Extensive development of skills in this area may be required
Quality Control Analysis	5.9	10.6	7.9	<<	Extensive development of skills in this area may be required
Operation and Control	5.4	10.3	14.0	>>	Skill level is likely more than sufficient
Equipment Selection	3.3	8.2	4.2	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 69			
Focus Occupation: Captains, Mates, and Pilots of Water Vessels (53-5021) Associated Occupation: Ship Engineers (53-5031)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Control Precision	6.6	11.5	12.6	0	Current ability level may be sufficient
Selective Attention	8.7	11.0	11.9	0	Current ability level may be sufficient
Visualization	7.5	10.7	10.3	0	Current ability level may be sufficient
Extent Flexibility	4.8	9.5	6.0	<<	Extensive improvement in abilities may be required
Auditory Attention	5.9	9.2	10.0	0	Current ability level may be sufficient
Hearing Sensitivity	5.6	8.6	8.4	0	Current ability level may be sufficient
Rate Control	3.8	7.9	9.4	>	Current ability level is likely sufficient
Gross Body Equilibrium	3.2	6.1	5.0	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 73
Focus Occupation: Captains, Mates, and Pilots of Water Vessels (53-5021) Associated Occupation: Ship Engineers (53-5031)		
Work Activities	Exclusivity of Activity	
Direct and coordinate activities of workers or staff	3	
Inspect machinery or equipment to determine adjustments or repairs needed	42	
Maintain records, reports, or files	5	
Monitor worker performance	57	
Oversee work progress to verify safety or conformance to standards	49	
Perform safety inspections in transportation setting	62	
Stand watch on vessel	92	
Understand technical operating, service or repair manuals	6	
Use two-way radio or mobile phone	42	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Captains, Mates, and Pilots of Water Vessels (53-5021)
Associated Occupation: Ship Engineers (53-5031)

Tools and Technologies	Exclusivity
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Tools and technology data is unavailable for one or both occupations.	
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Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.